

A Complex Method of Investigating Metal Properties.
by V. P. Chernobrovkin.

RUSSIAN, per, Lit Proiz, No 5, 1957, pp 22-24.

Co-op Tr Sch Tr 442

Sci - Min/met
Mar 58

60,174

442 ✓

Der Einfluss der Gluehtemperatur auf die Form der
Graphiteinschluesse im Termperguss, by G. I.
Ivantsov. (unpubl tr)

per
RUSSIAN to GERMAN, Lit Proiz, No 5, 1957, pp 25-26.

IDU 688
Institut fuer Dokumentation
Übersetzungsnachweis
Berlin, W.8
Unter den Linden 8

Apr 60

Centrifugal Casting of Double-Flange Cast-Iron
Pipe, by M. M. Levin, V. M. Krasulkin.

RUSSIAN, per. Litainoe Proizvodstvo, No 6,
1957, pp 1-4.

HB 4272

Sci - Engr

Nov 59

100,356

The Formation of Burn-on on Steel Castings, by
B. B. Gulyayev, Yu. F. Borovskiy. URCL

RUSSIAN, per, Lit Proiz, No 6, 1957, pp 5-7.

DSIR ILLU RTS 1239

(7s. 6d.)

Sci - Engr
Dec 59

102,500

The Production of Aluminium-Alloy Cylinder
Blocks, for Cars by Pressure Die Casting,
by T. I. Orlova. UNCLASSIFIED

RUSSIAN, per, Lit Prois, No 6, 1957, p 7.

Co-Op Tr Sch
Tr 468

Sci - Engr
Sep 58

73, 921

Manufacturing Automobile Cylinder Blocks From
Pressure Cast Aluminum Alloy, by T. I. Orlova, 4 pp.

RUSSIAN, per, Lit Proiz, No 6, 1957, pp 7, 8.
9660796

ATIC F-TS-9892

Sci - Engr

May 61

150,199

Surface Alloying of Profiled Castings, by A. M.
Mikhaylov, M. I. Serebryakov, 14 pp.

RUSSIAN, per, Lit Proiz, No 6, 1957, pp 18-22.
9660796

ATIC F-TS-9892

Sci - Engr

May 61

150,198

Verwendung von Zirkonsand im Giessereiwesen, by L. M.
Marienbakh, L. O. Sokolovskiy. (unpubl tr)

RUSSIAN to GERMAN, per, Lit Proiz, No 7, 1957,
pp 28-30.

IDU 694
Institut fuer Dokumentation
Übersetzungsnachweis
Berlin, W.8
Unter den Linden 8

Apr 60

On the Theory and Practice of Centrifugal Casting,
by B. I. Loshkarev.

RUSSIAN to GERMAN, per, Lit Proiz, No 8, 1957,
pp 1-6.

ID-U 710

Institut fuer Dokumentation-
Übersetzungsnachweis
Berlin, W 8
Unter den Linden 8

Dec 59

Automation of Capola Charging and Stockline Control With the Use of Radiisotopes, by G. K. Miroshnichenko.

RUSSIAN, per, Lit Proiz, No 8, Aug 1957, pp 14, 15.

Henry Bratcher 4341
\$3.75

Sci - Engr
Oct 58

75, 722

Solubility of Magnesium in Cast Iron, by A. F. Landa.

RUSSIAN, per, Litsinoe Proizvodstvo, No 8, Aug 1957,
pp 27-29.

Brutcher Tr 4070
\$4.90

Sci - Min/Mat

Apr 58

61,431

Magnesium Treatment of Low-Sulphur Basic-Carbons
Iron, by G. I. Kletskin.

RUSSIAN, per, Lit Proizv, Vol IX, No 9, 1957,
pp 21-26.

Henry Bratcher 4303
\$9.45

Sci - Engr
Oct 58

74, 855

61-18911

Malinochka, Ya. N.
PHASE TRANSFORMATIONS AND INTRACRYSTAL-
LINE LIQUATION IN IRON CARBON SILICON
ALLOYS (Fazovye Sostoyaniya i Vnutrikristallicheeskaya
Likvatsiya v Fe - C - Si Splavakh). [1961][13]p.
(foreign text included) 6 refs.
Order from OTS or SLA \$1.60

61-18911

Trans. of Litelnoe Proizvodstvo (USSR) 1957, no. 10,
p. 19-22.

DESCRIPTORS: *Iron, *Carbon, *Silicon, *Alloys,
*Phase transitions, Microstructure, Iron castings,
Cast iron, Eutectics, Ferrites, Austenite, Graphite,
Cooling, Pearlite, Crystal structure.

A study of micro and macrostructure of a large number
of iron castings indicated that the distribution of the
erritic matrix is not uniform in eutectic and hyper-
eutectic grey cast irons. Areas rich in ferrite are dis-
(Metallurgy--Structural, TT, v. 6, no. 10) (over)

1. Title: Cementite structures
I. Malinochka, Ya. N.

111607

Office of Technical Services

Nonmetallic Inclusion in Magnesium-Treated Iron
/for Rolling-Mill Rolls/, by A. E. Krivosheyev,
I. E. Lev.

RUSSIAN, per, Litsinoe Proizvodstvo, No 11, 1957,
pp 18, 19.

Butcher Tr 4094
\$4.80

Sci - Min/Met, Chem

Jan 58

65,725

Methods of Producing Internal Motion in (Centrifugal)
Castings During Their Solidification, by S. E. Rozenfel'd,
et al.

RUSSIAN, per, Lit Proiz, Ed 11, Nov 1957, pp 24-26.

Brutcher Tr 4170
\$5.75

Sci - Physics
Jul58

66,281

Continuous Casting, by A. N. Myasodov. UNCL

RUSSIAN, per, Lit Prois, No 12, 1957, pp 1-4.

Co-op Tr Scheme 553

Sci - Engineering
Mar 59

82,038

On the Diffusion of Mg in Fe, by I. L. Mirkin.
RUSSIAN, per, Liteynoye Proizyodstvo, No 12, 1957,
pp 13-16.
*CFSTI TT 70-59085

Sci- *phage*
June 70

Influence of Bismuth and Boron on Shortening
of the Annealing Cycle of White Iron, by
I. F. Kurtov, V. A. Zakharov.

RUSSIAN, per, Lit Proiz, No 12, 1957, pp 20-21.

BCIRA 925

Sci
Jun 63

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300840027-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300840027-4

The Use of Vibration During Solidification for
the ~~the~~ Elimination of Hot Shrinkage Cracks,
by I. I. Novikov, G. A. Korol'kov, A. E. Semenov.
UNCL

RUSSIAN, per, Lit Proiz, No 1, 1958, pp 7, 8.

HB 4753

Aluminium Lab, Ltd.

B-TM-233-59

OT/3598

Sci - Min/Met; Phys
Sep 59

96,780

Casting of Cast Iron Parts Under the Action of
Ultrasonics, by H. P. Nikolaychik, Ye. N.
Nikolaychik.

RUSSIAN, per, Lit Proiz, No 2, 1958, p 25.

OTIA Tr 32

Sci - Engr

HB 5275

Sep 59

97,555

Mechanical Properties of Dio-Processed Glass Fibers
by G. K. Gedeonishvili, R. B. Zvenitchaya.

RUSSIAN, per, Lit Proiz, No 3, Mar 1958, pp 10,
11.

Henry Bratcher 4336
\$2.80

Sci - Min/Mat
Oct 58

73,723

Vaschenko, K. I. and Golovan, N. A.
THE COMPOSITION AND STRUCTURE OF DECAR-
BURISED AND TRANSITION ZONES IN ANNEALED
IRONS. Jan 60.
Order from MT 4 10a MT Trans-30

Trans. of Litmetnoe Proizvodstvo (USSR) 1958, no. 3,
p. 16-20.

DESCRIPTORS: Iron, Steel, Microstructure.

BCIRA 923

(Metallurgy--Ferrous Metals, TT, v. 6, no. 6)

61-22783

I. Vaschenko, K. I.
II. Golovan, N. A.
III. MT Trans-30
IV. Tollemache, M. de O.
(Gt. Brit.)

176641

Office of Technical Services

Some Factors Affecting the Hot Tearing of Steel
Castings, Part II. Absorption of Contraction and
Expansion of Castings by Molding Sand, by A. M.
Lyss, Chou Yeo-huo.

U-SIAR, per, Lit Proiz, No 4, 1958, pp 19-23.

HB 4865

ci - Engr

pg 60

127,038

Casting Iron in Aluminum Alloy Mold Casting,
by N. B. Pasternak, V. I. Shurupov, N. A.
Kosenko.

RUSSIAN, per, Lit Proiz, No 4, 1958, pp 24-25.

LSB-107

Sci
Sep '61

169,120

RUSSIAN -to FRENCH
OTS TT-62-28240

Modification of Heat-Stable Alloys With an
Al-Si Base, by T. I. Orlova, 11 p.

RUSSIAN, per, Liteynoye Proizvodstvo, 1958, No 4,
pp 31-32.

SLA 63-17623
SLA 59-17623

Sci
Feb 60
Vol 2, No 9

107,089

Influence of Vibrations on Atrial Propagation,
by V. A. ^R Serkovskiy. Unkn.

RUSSIAN, per, Lit Proiz, No 5, 1958, pp 19-21.

BISI 1/15

(L3 15e, Od.)

Sol - Min/Dat
Dec 59

106,457

The Formation of Spheroidal Graphite and
~~Progress~~ Progress in High Tensile Iron Technology,
by E. S. Milman.

RUSSIAN, per, Lit Proizv, No 6, 1953, pp 11-17.

ECIRA 7

Sci
Jun 63

Effect of Steel Composition on Hot Tearing
in Castings, by M. A. Trubitsyn, P. H.
Bidulya. UNCL

RUSSIAN, per, Lit Proiz, No 6, 1958,
pp 22-26.

.. BISI 1538

(L5 15s.04.)

Sci - Min/Met; Engr
Mar 60

109,414

Pressure Die Casting Under Vacuum, by N. L.
Zaslavskiy.

RUSSIAN, per, Ist Proiz, No 7, 1958, pp 6-8.

HB 461A

Sci. - Engr

LSB-101

Feb 60

108,507

Resistance of Cast Steel to Hot Tearing and Ways
of Improving It, by N. S. Krenichevskiy, M. P.
Demin.

RUSSIAN, per, Litatsionno Proizvodstvo, No 7, 1958,
pp 17-21.

HD 4633

Sci - Min/Mat, Engr

Nov 59

109 353

New Process for Production of Alloys, by G. I.
Pogodin-Alekseyev, V. V. Zaboylev-Zotov.

RUSSIAN, per, Lit Proiz, No 7, 1958, pp 25, 26.

HB 4779

possibly ~~HB~~ ATIC MOL-244/III

Sci - Min/Met

Apr 60

114, 273
AEC NP-TL-529

Substitutes for Ethyl Silicate, by A. A.
Kotovskikh. UNCL

RUSSIAN, per, Lit Prois, No 9, 1958, p 32.

SLA 60-19014
DSIN LLU RTS 1472

(2s. 64.)

Sci - Chem

Apr 60

113,013

Graphite Casting Molds, by M. N. Sosnenko, 4 pp.

RUSSIAN, per, Lit Proiz, No 10, 1958, pp 6, 7.

OMIA Tr 34

Sci - Engineering
Jan 60

105,917

PS: CR-2694

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300840027-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300840027-4

62-29268

Landa, I.
SUSTITUCION PARCIAL DEL COKE POR LIGNITO
EN LA HORNADA DE UN CUBILOTE DE SOPLADO
CALIENTE (Chastichaya Zamena Koksá Buriym Uglem v
Shikhie Vagranki a Podogrevom Dur'ya) (Partial Substi-
tution of Lignite for Coke in the Furnace Charge of Hot
Blown Smelter). 5p. CID: 62-268.
Order from OTS, ETC or CID \$0.80 62-29268

Trans. in Spanish of Litainoe Proizvodstvo (USSR) 1958,
no. 10, p. 31.

DESCRIPTORS: Fuels, Coke, *Lignite.

(Metallurgy, TT, v. 10, no. 8)

I. Landa, I.
II. CID-62-268
III. Centro de Información
y Documentación,
Madrid (Spain)

Office of Technical Services

DC-2452

The Comparative Economics of Smelting Open-Hearth
and Electric-Furnace Steel in Foundry Production, by
N. S. Sachko, 9 pp.

RUSSIAN, per, ^YLitaknoye Proizvodstvo, No 11,
Moscow, Nov 1958, pp 4-6.

US JPRS/DC-L-1333

USSR
Econ
Jan 59

78,775

Noskov, B. A., Rozenberg [Yu]. G. and others. COKE-GAS CUPOLA FURNACE [Koksogazovaya Vagranka]. [1960] [12]p. (foreign text included). Order from LC or SLA ml\$2.40, ph\$3.30 60-18349 Trans. of Liteynoye Proizvodstvo (USSR) 1958, no. 11, p. 14-15. A cupola is described in which normal conditions for gas burning and reduced coke expenses were obtained by reducing the number of tuyeres from 6 to 4. (Metallurgy--Ferrous Metals, TT, v. 5, no. 3)	60-18349 1. Cupola furnaces--Design I. Noskov, B. A. II. Rozenberg, Yu. G. 143,047 Office of Technical Services
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Desulfurization of Liquid Cupola Iron by
Magnesium, by B. S. Milman, et al.

RUSSIAN, per, Lit Proiz, Vol IX, No 11, 1958,
pp 15-17.

Brutcher 4518

Sci - Min/Met

Jun 59

90,033

On the Desulfurization of Liquid Iron With
Magnesium, by V. I. Lakowskiy.

RUSSIAN, per, Lit Proiz, Vol X, No 11, 1958,
pp 18.

Henry Bruckner 4519
\$2.50

Sci - Chem

May 59

86,595

Furnace [Specifically, Deoxidizing] Practice for
Steel Casting, by N. N. Dobrokhotov.

RUSSIAN, per, Lit Proiz, Vol IX, No 12, 1958,
p 8.

HB 1945

Sci - Chem - Deoxidizing

Mar 61

145,053

Shrinkage Phenomena in Continuous-Cast Steel, by
V. S. Guban, V. A. Leites.

RUSSIAN, per, Lit Proiz, Vol XI, No 12, 1958,
pp 10-12.

Henry Bratcher 4554
\$8.60

Sci - Engr

May 59

86,598

A. For a Better Organization in Scientific
Research and Structural Design Work, 4 pp. 20 1001

RUSSIAN, per, Lit Proiz, Jan 1959, p 1.

ACSI, E-6054

Sci - Misc

Jan 60

106,184

B. Factors Determining the Amount of Mold
Taper on Patterns; C. New Technological
Methods in Studying the Fluidity of Metals and
Formation of Shrinkage Cavities; H. E. Cryolite,
An Effective Flux in Brass Smelting, 28 pp.

19

RUBINSTEIN, per, Lit Prois, Jan 59, pp 27, 48.

ID 2140241

ACSI, H-6054

Sci - Min/Met

C. DSA 244 RTS 15/8

Jan 60

106,177

Gorshkov, A. A., Markhasov, B. I. and others.
MEJORA DE LA CALIDAD DE ARENAS DE MOLDEO
POR ADICION DE PEQUEÑAS CANTIDADES DE SALES
(Uluchshenie Kachestva Formovochaykh Smesel Putem
Vvedeniya Malykh Dobavkov Solei) (Improvement in
Molding Sands Characteristics Through the Addition of
Small Amounts of Salts). 27p. 6 refs. CID:62-267.
Order from OTS, ETC or CID \$1.01 62-29267

Trans. in Spanish of Litening Proizvodstvo (USSR)
1959, no. 2, p. 34-38.

DESCRIPTORS: Effectiveness, *Molding materials,
Additives, Salts, *Sand.

(Metallurgy, TT, v. 10, no. 8)

62-29267

- I. Gorshkov, A. A.
- II. Markhasov, B. I.
- III. CID-62-267
- IV. Centro de Información
y Documentación,
Madrid (Spain)

Office of Technical Services

Grain of Solidifying Metal Refined by Vibration,
by I. I. Novikov.

RUSSIAN, per, Lit Proiz, No 2, 1959, p 42.

Brutcher 4563

Sci - Min/Met

Jun 59

90,043

Manufacture of Castings, 8 pp. UNKL

RUSSIAN, per, Lit Proiz Vodstvo, No 3, 1959.

ACBI E-4974
ID 2163944

USSR
Moon
Mar 61

143,818

Turbovskii, M. M.
MODIFICATION OF CAST IRON BY ADDITIONS OF
MOLTEN STEEL. [1961] 6p.
Order from ATS \$8.40 ATS-07N56R

Trans. of Litcinoe Proizvodstvo (USSR) 1959, no. 3,
p. 4-7.

DESCRIPTORS: *Cast iron, Processing, *Steel, Melt-
ing, Additives.

15-3345

(Metallurgy--Ferrous Metals, TT. v. 7. no. 4)

62-12149

- I. Turbovskii, M. M.
- II. ATS-07N56R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

The Optimum Composition of Alloy Al for Casting
Pistons, by D. P. Levtsov, 11 pp.

RUSSIAN, per, Lit Prois, No 3, 1959, pp 12-14.

ATTC MCL-447/III

ISIR LLA 11-1512 (2-11)

Sci - Min/Mat

Dec 60

134,625

905 9127

Use of Steel Molds (in Conjunction With Sand
Cores) for Large Steel Castings, by B. I.
Smolenskiy, N. N. Guglin, G. P. Zasetakiy.

RUSSIAN, per, Lit Proiz, No 3, 1959, pp 23-26.

HB 4849

Sci - Min/Met

145, 048

Feb 61

CAUSES OF SATURATION OF METAL-MOLD SURFACES WITH
SULFUR, BY YU. L. LITVAKOVSKAYA, YU. P.
BARDACHEV,

RUSSIAN, PRE , LIT PROIZ, NO 3, 1959,
PP 29, 30.

HB 5680

SCI - MIN/MET
OCT 62

212,099

Heat Resistant Enamel Coating Stable to the
Action of Molten Aluminium, by G. V. Kukolev,
V. N. Tarasenko.

RUSSIAN, per, Lit Proiz, No 3, 1959, pp 45, 46.

DSIR LLU M.1049
(loan)

DSIR LLU M. 1245 (copy)

SLA 60-13752

128,744

Sci - Chem

Oct 60

Morozov, V. N. and Yaropolov, I. N.
CUPOLA FOREHEARTH HEATED BY GASES DI-
VERTED FROM TUYERE ZONE. Sep 61.
Order from HB \$2. 25 HB-4624

Trans. of Liteinoe Proizvodstvo (USSR) 1959, no. 3,
p. 46.

DESCRIPTORS: USSR, *Cupola furnaces, Design,
Coke, Heat production, Coal gas.

(Metallurgy, TT, v. 6, no. 11)

61-25594

I. Morozov, V. N.
II. Yaropolov, I. N.
III. HB-4624
IV. Brucher, Henry, Altadena,
Calif.

Office of Technical Services

Cupola Forehearth Heated by Gases Diverted
From Tuyere Zone, by V. N. Morozov,
I. N. Yaropolov.

RUSSIAN, per, Lit Proiz, 1959, No 3, p 46.

HB 4624

Sci -Engr
Oct 61

Ways of Reducing Labour Consumption in the
Foundry Trade.

RUSSIAN, per, Lit Proiz, May 1959, p 1.
2-11-74

BISI 1986

USSR

Econ

136,588

Inclusions [Black Spots] in Magnesium-Treated
Cast Iron in a Phosphoric-Chromic Acid Electrolyte,
by L. P. Zaitseva.

RUSSIAN, par, Lit Proiz, No 5, 1959, pp 17,-18.

HE 4651

Sci - Min/Met

Nov 59

101, 236

Hydrodynamic State of Metal and Its Effect on the
Macrostructure of Centrifugal Castings, by N. N.
Reutov.

RUSSIAN, per, Lit Proiz, Jun 1959, pp 22-27.

*HB 4771

Sci - Min/Met
Jan 60

On the Mechanism of Modifying Some Aluminum
Alloys, by L. Kubichek, M. B. Mal'tsev, 9 pp.

RUSSIAN, per, Lit Freis, No 5, 1959, pp 28-30.

ATTC MCL-245/III

Sci - Min/Met

Dec 60

514 66-16782
134, 616

pp 28-34 — REC. NF-T-535

Metallothermal Method in Producing Zirconium Master
Alloy, by A. I. Layner, M. A. Kolenkova,
Ye. K. Barent, 12 pp.

RUSSIAN, per, Lit Prois, No 5, 1959, pp 30-32.

ATTC MCL-246/III

Sci - Min/Met

Dec 60

134,617

The Use of Borine Chloride in Casting Magnesium Alloys,
by D. A. Kuznetsov, A. I. Malakhov, 5 pp.

RUSSIAN, per, Lit Proiz, No 5, 1959, pp 32.

ATTC MCL-246/III

Sci - Chem

9659128
134,621

Dec 60

Refining the Structure and Eliminating Cracks
in the Magnesium Alloy, by V. S. Astaulov,
A. D. Klimov, A. S. Astaulova, 7 pp. Castings

RUSSIAN, per, Lit Proiz, No 5, 1959, pp 33-34.

ATIC MCL-246/III

Sci - Min/Met

Dec 66

134, 624

Transformation of Graphite Inclusions in Cast
Iron Saturated [in Solid State] With Magnesium,
by P. N. Tavadze, M. A. Essen.

RUSSIAN, per, Lit Proiz, Vol X, 1959, No 6,
pp 15-18.

HB 4713

Sci - Min/Met

Apr 60

114,267

hydrodynamic condition of Model in Generalized
Condition and Effect on Characteristics, by N. N.
Korobov.

RUSSIAN, per, Int Proiz, Vol X, No 6, 1959,
pp 22-27.

MB 4771

Sci - Engr

Apr 60

114,268

Press Forming of [Liquid] Steel, by
N. N. Rubtsov, et al.

RUSSIAN, per, Liteinoe Proiz, No 7, 1959,
pp 17-18.

HB 5363

Sci-Min/Met
Jan 63

226,618

Fomichev, A. V.
STAMPING OF LIQUID METAL IN A ONE-PIECE
DIE. [1961] 7p. (5 figs. omitted) 3 refs.
Order from OTS or SLA \$1.10 61-14975

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 8,
p. 13-14.

Another translation is available from LC or SLA
mi\$1.80, ph\$1.80 as 61-10212 [1960] [6]p.

DESCRIPTORS: *Liquid metals, Casting, *Dies, *Metal
forming presses, Aluminum alloys.

(Machinery--Manufacturing, TT, v. 6, no. 2)

61-14975

1. Title: Stamping
2. Title: One-piece die
- I. Fomichev, A. V.

169715

Office of Technical Services

Tatanov, D. P. and Kuranova, N. V.
THE PRODUCTION OF COMPLICATED ALUMINUM
ALLOY CASTINGS BY PRESSURE DIE CASTING.
Jan 60.
Order from MT 110e MT Trans-99

Trans. of Liteinos Proizvodstvo (USSR) 1959, no. 8,
p. 23.

DESCRIPTORS: *Transmissions, Vehicles, *Aluminum
alloys, *Aluminum castings, Dies, Metal forming
presses

(Machinery--Manufacturing, TT, v. 6, no. 3)

61-22784

- I. Tatanov, D. P.
- II. Kuranova, N. V.
- III. MT Trans-99
- IV. Tollemache, M. de O.
(Gt. Brit.)

180549

Office of Technical Services

11 221

GE-1

KURTOV I. F.

Production of mild steel with additions of bismuth and boron

Die Herstellung von mit Wismut und Bor modifiziertem
Temperguss

Liteinoe Proizvodstvo, No. 8, 31-34 (1959)
Giesserei-Technik, 6, No. 5, 153-154 (1960)

German

E u r a t o m

Double-Layer Shell Moulding for Iron Castings, by
A. A. Smirnov, I. V. Bobysheva. UNCL

RUSSIAN, per, Lit Proiz, No 9, 1959, pp 14, 15.

*HB 4815

Sci - Engr
May 60

Effect of Lithium on Form of Graphite in Cast Iron,
Tavadze, D. D. Ebanoidze, UNCL

RUSSIAN, per, Lit Proiz, Sep 1959, p 38.

HB 4762

Sci - Min/Met
Jan 60

104,557

Pressure Die Casting of Steel, by V. M. Belov,
S. A. Kazennov.

RUSSIAN, per, Lit Proiz, No 10, 1959, pp 12-17.

HB 4847

Sci - Engr

Oct 60

129,116

^{RE}
THERMAL TREATMENT OF MOLTEN METALS AND ITS
EFFECT ON MECHANICAL PROPERTIES OF CASTING,
BY A. G. SPASSKI, B. A. FOMIN, ~~AND~~
S. I. OLEYNIKOV.

RUSSIAN, PER, LIT PROIZ, NO 10, 1959,
PP 105-108.

ALUMINIUM LAB

SCI - ENGR

173,190

NOV 6L

INTERNATIONAL FOUNDRY CONGRESS (NO 2f)
[1961] Sp. [DSIR LLU] M. 2340.
Order from LC or SLA m\$1.80, ph\$1.80 #1-15476

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 1-2.

Topics are noted of papers presented at the Congress
held in 1958 at Madrid, Spain.

(Machinery--Manufacturing, TT, v. 5, no. 12)

#1-15476

1. Iron castings
2. Conferences
3. Title: Foundry congress
1. DSIR LLU M 2340

16552

Office of Technical Services

Kolchinskly, V. M.
CASTING IN CERAMIC MOULDS. [1961] [5]p. [DSIR
LLU] M. 2341.
Order from LC or SLA ml\$1.80, ph\$1.80 61-15477

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 2-3.

Instructions.

(Machinery--Manufacturing, TT, v. 5, no. 12)

61-15477

I. Iron castings--Production
I. Kolchinskly, V. M.
II. DSIR LLU M. 2341

100629

Office of Technical Services

Kurochkin, P. D.
CASTING BLAST FURNACE IRON. [1961] [4]p. [DSIR
LLU] M. 2342.
Order from LC or SLA m\$1.80. ph\$1.80 61-15478

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 3-4.

In spite of appreciable differences in silicon content
and of a high proportion of phosphorus, the mechanical
properties of the iron of blast furnace melts treated
with magnesium exceed by a factor of 3 or 4 the me-
chanical properties of the original iron, also the prop-
erties of sulphur and inoculated cupola cast irons
(GOST 1412-54) and in many cases approach the me-
chanical properties of magnesium cupola cast iron
(GOST 7293-54). Industrial experience has demon-
strated the advantages of magnesium-treated iron from
the blast furnace melt for casting machine components.

(Machinery--Manufacturing, TT, v. 5, no. 12)

61-15478

- I. Iron castings--Production
- I. Kurochkin, P. D.
- II. DSIR LLU M. 2342

10062

Office of Technical Services

61-15480

Shestopal, V. M.
IN THE FOUNDRIES OF CZECHO-SLOVAKIA. [1961]
[9]p. 1 ref. [DSIR LLU] M. 2344.
Order from LC or SLA ml\$1.80, ph\$1.80 61-15480

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 5-7.

Processes and special machines introduced in Czecho-
slovakia are reviewed.

1. Iron industry--
Czechoslovakia
2. Iron castings--Production
1. Shestopal, V. M.
- II. DSIR LLU M. 2344

106520

Office of Technical Services

(Machinery--Manufacturing, TT, v. 5, no. 12)

Casting Intricate Iron Components in Multi-
Sectional Chill Moulds, by G. I. Gordon.

RUSSIAN, per, Lit Proiz, No 12, 1959, pp 7, 8.

DSIR LEB M.2345
(loan)

Sci - Min/Met

156,889

Jun 61

SLA-61-154, 1

New Method of Trimming and Fattling Castings,
by M. S. Kashanskiy, et al.

RUSSEAN, per, Lit Proiz, No 12, 1959, pp 8, 9.

DSIR LIU M.2346
(loan)

Sci - Engr

Jun 61

156,890
SNA - 61 - 15462

Frolov, N. P.
SB BINDER USED FOR LARGE IRON CASTINGS.
[1961] [5]p. [DSIR LLU] M.2347.
Order from LC or SLA mi\$1.80, ph\$1.80 61-15483

Trans. of Liteynoye Proizvodstvo (USSR) 1959, v. 12,
no. 9-10.

The experiences of the heavy casting shop of the
Kolonna Heavy Machine Construction Works are re-
viewed concerning the use of the quick-hardening
SB binder. This binder is an emulsion of sulfited
distillation residues with additions of
GTF (GOST 5339-50) flaky generator tar as emulsi-
fier. Advantages and shortcomings of the binder are
noted.

(Machinery--Manufacturing, TT, v. 5, no. 12)

61-15483

1. Iron castings--Binders
1. Frolov, N. P.
- II. DSIR LLU M.2347

100621

Office of Technical Services

Below, V. M.
THE OPERATION OF DIE-CASTING MACHINES WITH
HORIZONTAL PRESSURE CHAMBERS. [1961] [5]p.
[DSIR LLU] M2348.

Order from LC or SLA ml\$1.80, ph\$1.80 61-15484

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 11-12.

Another translation is available from HB \$2.90 as
HB-4879, Sep 60, 1000 words.

(Metallurgy, TT, v. 5, no. 11)

61-15484

1. Dies--Casting
 2. Steel--Casting
 3. Machines--Operation
- I. Below, V. M.
 - II. DSIR LLU M.2348

160955

Office of Technical Services

Suction Casting, by A. A. Ridnyy,

RUSSIAN, per, Lit. Proiz, No 12, 1959, pp 12, 15

DSIR LLU M.2349
(loan)

Sci - Engr

Jun 61

156,882

Chaykovskiy, K. A.
AN INERTIAL SHAKING-OUT FRAME. [1961] [2]p.
[DSIR LLU] M. 2350.
Order from LC or SLA ml\$1.80, ph\$1.80 61-15485

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 13-14.

A 10-ton inertial shaking-out frame is described that
was designed and constructed at the Sibtyazhmash
Works.

(Machinery--Machine Parts, TT, v. 5, no. 12)

61-15485

I. Inertia devices--Design
1. Chaykovskiy, K. A.
II. DSIR LLU M. 2350

106600

Office of Technical Services

Kushch, K. M.
APPARATUS WITH ONE ELECTRONIC VALVE
CARRYING OUT THE FUNCTIONS OF MANY
TIME - AND FEED-BACK RELAYS. [1961] [6]p.
3 refs. [DSIR LLU] M. 2351.
Order from LC or SLA ml\$1.80, ph\$1.80 61-15486

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 14-15.

An electronic mechanism for time control is described
which replaces any number of successively arranged
time relays with adjustable or independent timing.

(Machinery--Manufacturing, TT, v. 5, no. 12)

61-15486

1. Control systems--Design
2. Foundries--Operation
3. Industrial production--
Control systems

- I. Kushch, K. M.
- II. DSIR LLU M. 2351

106631

Office of Technical Services

Zorin, A. I. MECHANIZATION OF SINGLE AND SMALL SCALE PRODUCTION OF CORES. [1961] [5]p. [DSIR LLU] M. 2352. Order from LC or SLA m\$1.80, ph\$1.80 61-15487 Trans. of <u>Liteynoye Proizvodstvo</u> (USSR) 1959, no. 12, p. 15-16. A machine for densifying by vibration is described. (Machinery--Manufacturing, TT, v. 5, no. 12)	61-15487 1. Castings--Production 2. Castings--Machining 1. Zorin, A. I. II. DSIR LLU M. 2352. 160632 Office of Technical Services
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The Mechanism of ~~Exp~~ Graphite Formation in
Magnesium Iron, by R. P. Rusev.

RUSSIAN, per, Lit Proiz, No 12, 1959, pp 17-19.

NLL M. 2353

Sci - Min/Metals

174, 991

Dec 61

APPROVED FOR RELEASE: Thursday, December 13, 2001 **CIA-RDP84-00581R000300840027-4**

APPROVED FOR RELEASE: Thursday, December 13, 2001 **CIA-RDP84-00581R000300840027-4**

Hot Shortness of Aluminium Alloys Due to
Overheating the Melt, by I. I. Novikov, G. A.
Korolkov.

RUSSIAN, per, Lit Proiz, No 12, 1959, pp 21-22.

NLL M. 2355

Sci - Min/Metals

173, 975

Nov 61

The Overheating of Iron in the Cupola, by A. V.
Kaibichev, V. P. Chernobtovkin.

RUSSIAN, per, Lit Proiz, No 12, 1959, pp 22-24.

DSIR M.2356

Sci - Chem

Sep 61

168,604
SLA-61-15488

Levi, L. I. and Zhukov, A. A.
NITROGEN IN HIGH MANGANESE STEELS. [1961]
[12]p. 25 refs. DSIR [LLU] M.2357.
Order from LC or SLA ml\$2.40, ph\$3.30 61-15489

Trans. of Litovskoye Proizvodstvo (USSR) 1959, no. 12,
p. 24-27.

(Metallurgy--Ferrous Metals, TT, v. 5, no. 11)

61-15489

1. Steel castings--
Microstructure
2. Nitrogen--Metallurgical
effects

- I. Levi, L. I.
- II. Zhukov, A. A.
- III. DSIR LLU M.2357

160956

Office of Technical Services

Popov, A. D.
CRYSTALLIZATION OF IRON IN CONTINUOUS
CASTING. [1961] [4]p. [DSIR LLU] M. 2338.
Order from OTS or SLA \$1.10 61-15490

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 27-28.

DESCRIPTORS: *Cast iron, *Crystallization, *Pipes,
Casting, Iron.

The principal factors in determining efficient technological parameters for the continuous casting of iron tubes and other components are (1) the crystallization constants in continuous casting of iron (2) the thickness of the solidifying shell in the mould, and (3) the depth of the liquid phase.

(Metallurgy, TT, v. 6, no. 1)

61-15490

I. Popov, A. D.
II. DSIR LLU M. 2338

161789

Office of Technical Services

Gol'dshteyn, Ya. Ye. and Pyatakova, L. L.
 THE EFFECT OF TITANIUM ON THE PROPERTIES
 OF BORON-CONTAINING STEELS. [1961] [10]p.
 1 ref. [DSIR LLU] M. 2359.
 Order from OTS or SLA \$1. 10 61-15491

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
 p. 28-31.

DESCRIPTORS: Casting. *Steel. *Titanium. *Boron steel

L36R, 45R, and 20 KhGNR boron steels were ex-
 amined. It was concluded that titanium added to boron-
 containing steel exerts a strong inhibiting action on
 grain growth. A combined deoxidation of boron steel
 with silico-calcium (0.2-0.3%) and small additions of
 aluminum (0.03%) is very effective. The advisability
 of titanium additions depends upon the intended use of
 the steel and upon the conditions of its subsequent hot
 mechanical and thermal treatments. The addition of
 titanium is undesirable for casting-type steels.
 (Metallurgy, TT, v. 6, no. 1)

61-15491

I. Gol'dshteyn, Ya. Ye.
 II. Pyatakova, L. L.
 III. DSIR LLU M. 2359

161780

Office of Technical Services

The Effect of Densification of the Strength of the
Moulding Mixture With S.B. Binder, by N. D.
Igorkina.

RUSSIAN, per, Lit Proiz, No 12, 1959, pp 31-32.

DSIR M.2360

Sci - Engr

Sep 61

168,600
SLA-61-15-492

Valisovskiy, I. V.

WETTING OF MOULDING MATERIALS BY THE
MOLTEN ALLOY. [1961] [12]p. 12 refs. [DSIR
LLU] M. 2361.

Order from OTS or SLA \$1. 60

61-15493

Trans. of Liteynoye Proizvodstvo (USSR) 1959, no. 12,
p. 32-35.

DESCRIPTORS: *Casting, *Flotation, Wetting agents,
*Molding materials, Liquid metals, *Alloys.

A comparison of the wetting of moulding materials by
different alloys showed that in an oxidizing gaseous
medium the wetting by Armco iron and by 30L carbon
steel is practically the same. In a neutral gas atmos-
phere the acid moulding materials (mixtures on a
quartz base and chromium iron ores) are wetted better
by 30L steel and worse by chromium nickel steel.
Armco iron occupies an intermediate position. The
basic moulding materials (magnesite and chrome-
(Metallurgy, TT, v. 6, no. 1) (over)

61-15493

I. Valisovskiy, I. V.
13. DSIR LLU M. 2361

161791

Office of Technical Services

Effect of Small Additions of Zirconium, Titanium
and Boron on the Structure and Properties of Silicon
Iron, by V. M. Chursin, A. Ya. Zavgorodni.

RUSSIAN, per, Lit Proiz, No 12, 1959, pp 35-37.

DSIR LLU M.2362
(loan)

Sci - Min/Met

Jun 61

156,887
SLA-61-15194

Automatic Discard Control of the Spent Mixture From
the Shaking Out Frames on to a Belt Conveyor, by
P. D. Adayev, et al.

RUSSIAN, per, Lit Proiz, No 12, 1959, p 37.

DSIR M.2363

Sci - Egr

168,588

Sep 61

Production of Iron Castings of High Quality, by
I. ~~pa~~ P. Khedosek.

RUSSIAN, per, Lit Proiz, No 12, 1959, p 38.

DSIR M.2363

Sci - Engr

Sep 61

168,606

Shell Cores With Water-Glass Mixtures, by V. S.
Burov.

RUSSIAN, per, Lit Proiz, No 12, 1959, p 38.

NLL M. 2363

Sci - Chem

Jan 62

180, 050

Coating Cast Iron Crucibles for Melting
Aluminium Alloys, by M. P. Kuptsov.

RUSSIAN, per, Lit Proiz, No 12, 1959, p 39.

NLL M. 2363

Sci - Engr

174,984

Dec 61.